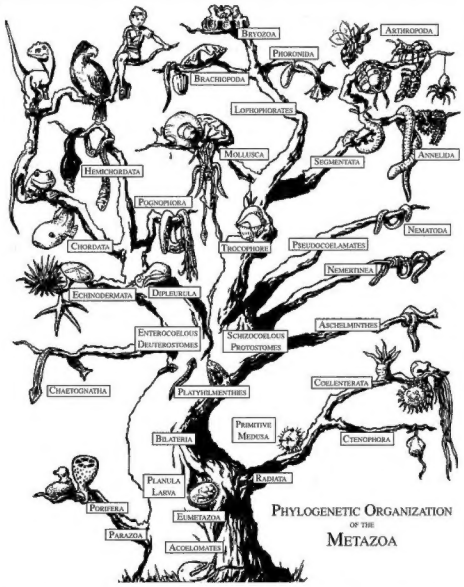
August 11, 2018

Channel created

Channel photo updated



Le "arbore" phylogenetic del Metazoa, id est le animales pluricellular. Il ha plure evidentias fossil e genetic: tote iste brancas veni de un specie ancestor commun, un typo de protista unicellular.

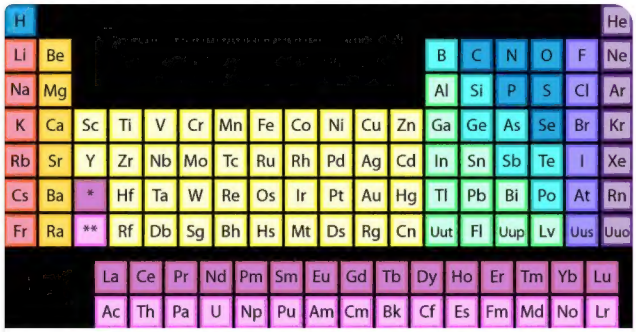
59 19:39

Le glacio, in movimento turbolente nel nubes de un tempesta, collide generante un potential electric. Isto genera tunc un voltage, in relation al 0 del terra, que pote rumper le aere con un fulmine.

61 19:56

Similmente a le glacio in un tempesta regular, durante un eruption le ejecta collide, generante un potential electric. In alicun casos illo es satis alte pro generar un rare tempesta eruptive.

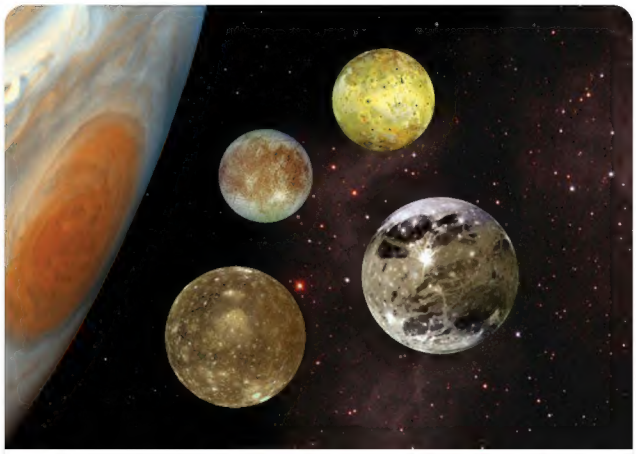
76 20:04



Le tabula periodic, le auxilio le plus importante pro un scientista. Illo conteni, tabulate dependente del proprietates, tote le elementos quimic que face le materia animate e inanimate.

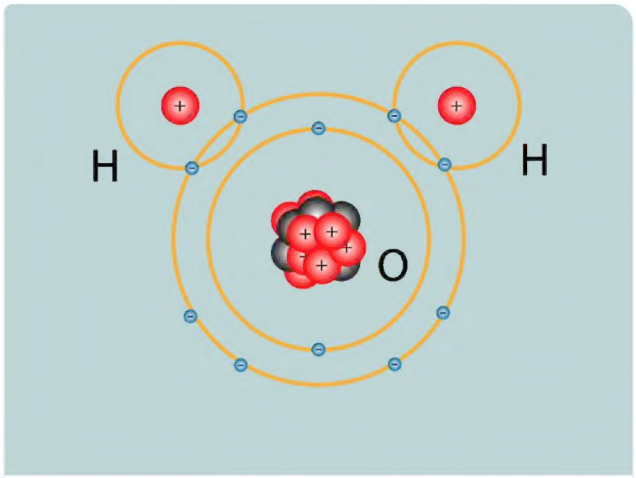
56 edited 20:08

August 12, 2018



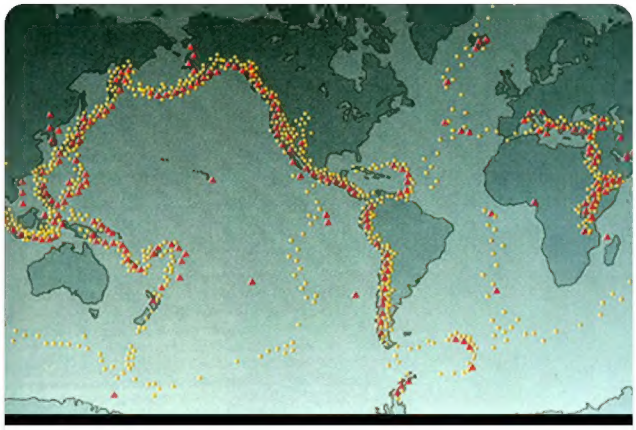
Le 4 lunas major de Jupiter: Io, Europa, Ganymede e Callisto. Illes esseva descoperite per le "prime" scientista, Galileo, le anno 1610. Illes evidentiava que non tote corpores gyra circum le Terra.

62 edited 06:14



Structura molecular del aqua. Atomos liga se in moleculas mittente in condivision electrones. Illes recerca naturalmente haber 2 in le anillo interne e 8 in le externe: assi illes troba stabilitate.

57 06:22

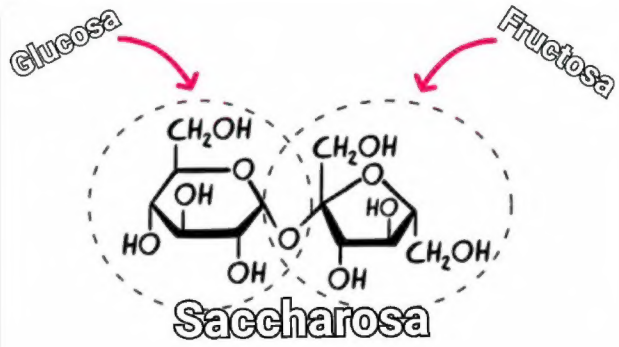


Distribution geographic del seismos (jalne) e eruptiones (rubie) recente, in tote le mundo. Il es evidente que le majoria de illos forma lineas ben precise: le limites del placas tectonic del Terra.

58 07:51

Auro? Non, il es rutilo, bioxydo de titanio (TiO2). Su polvere es le pigmento blanc plus commun: paper, plastico, color pro muros, etiam alimentos (E171). Le production global es circa 6 Mt/anno.

60 08:57

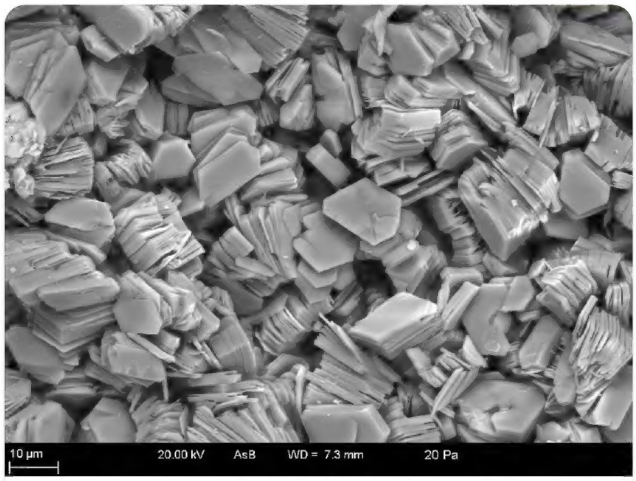


Le sucro que nos usa diariemente es le saccharosa, un polysaccharide facte per duo monosaccharides unite: glucosa e fructosa. Tote le sapor dulce natural veni de sol 3 atomos ben combinate: C, H, O.

55 12:38

Iste planta multo simple a recognoscer se dice Equiseto (genus *Equisetum*). Il es un fossil vivente: le formas actual jam existeva juncto al dinosauros in le Jurassico. Il es edibile sed moderatemente.

74 18:56



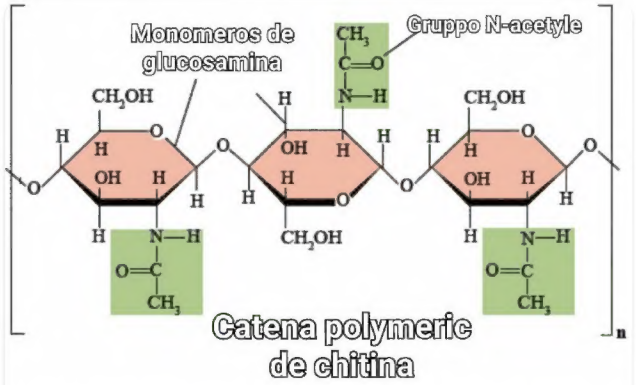
Argilla al microscopio SEM. Su structura laminar permitte absorber multe aqua. Argillas es optime insulatores thermic, electric e hydraulic, e illos es usate etiam pro fabricar lubrificantes mechanic.

54 20:26

August 13, 2018

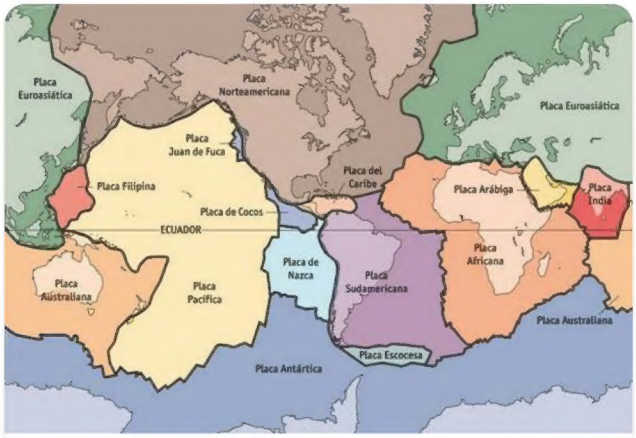
Rar exemplar de coelacantho. Ce classe de pisces, le Sarcopterygios, habe articulationes ossee in su alettas. Le vertebratos terrestre veni de iste ancestores commun, que compariva in le Carbonifero.

54 06:27



Le chitina es le polymero organic que forma le partes dur de plure organismos, como le exoskeleto de insectos e crustaceos o radulas de molluscos. Il se tratta de un polysaccharide de C, H, O e N.

57 11:52



Le surfacie rigide del Terra (lithosphera) es fracturate in placas qui lentemente vaga generante morphostructuras: placas collide (⛰ex Himalaya), se distantia 🌊(oceanos), subduce (🌋ex Andes), etc.

56 edited 16:34

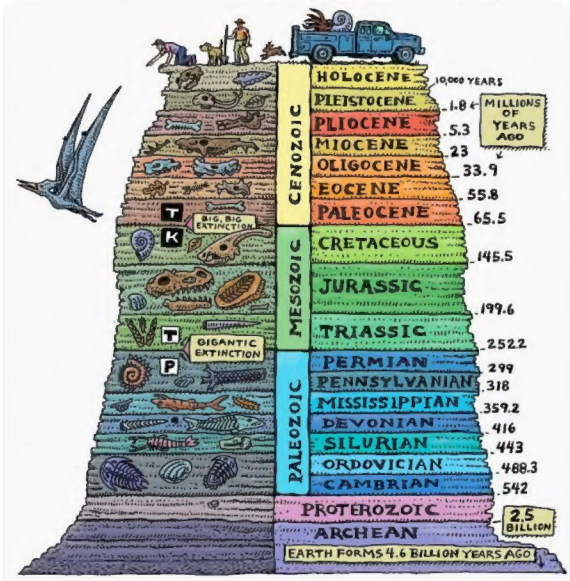
August 14, 2018

Ce parve organismo es *Vorticella*, un protozoon ciliate qui vive in aqua dulces e nutre se de bacterios. Habe le dimension de ~40 micrometros (0.04mm) e pote vider se con microscopios optic economic.

56 04:36

Noril'sk (🇷🇺) es le secunde plus gran citate inter le circulo polar arctic. Il ha le plus grande ressource de nickel mundial: bon parte del Ni, como le ~1% del SO2 polluente le aere, veni de hic.

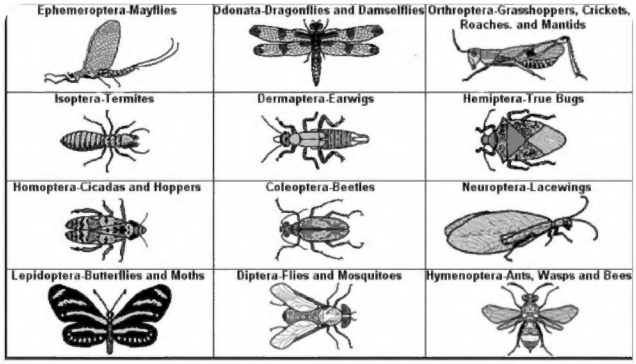
74 06:33



Le Phanerozoic initiava quando compareva le prime fossiles, il face 542 Ma. A vices il habeva extintiones massive, sed depost le vita resurgeva gratias al organismos plus adapte al nove conditiones.

64 10:02

August 15, 2018



Le principal ordines del classe *Insecta*. Le prime insectos compareva in le Devoniano e usque hodie se differentiava in 1000000+ de species: ce classe comprende plus de ½ de tote species animal.

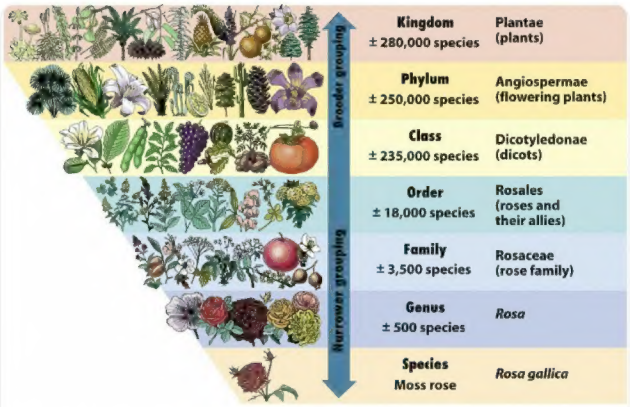
54 09:29

Mikołaj Kopernik, astronomo e mathematico polonese, ideava le importante modello astronomic copernican e publicava lo in le 1543. Isto esseva un evento clave del revolution scientific.

57 15:30

Le famose fossil trobate in Germania, del taxa *Archeopteryx*. Ce animal ha adjutate a replenar le lacuna evolutive des de dinosauros terrestre usque aves volante.

57 edited 19:37



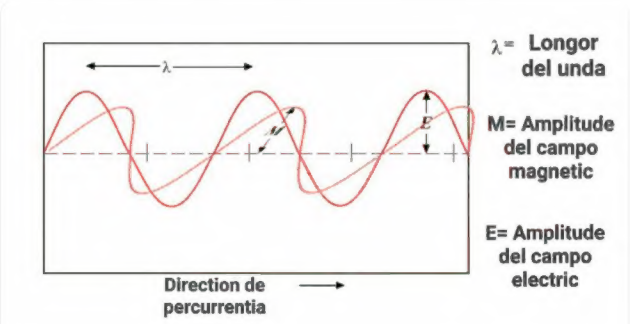
Pro le comprehension del scientias natural il es de primarie importantia le classification del svedese Carl Linnaeus, in *Systema Naturae,* 1735.
Regno, Phylum, Classe, Ordine, Familia, Genere, Specie.

60 20:17

August 16, 2018

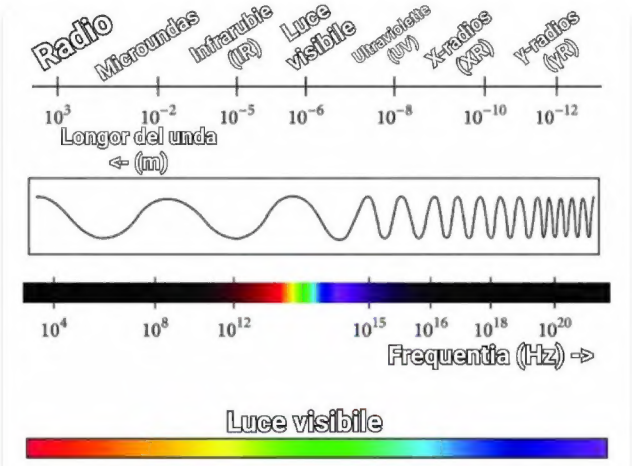
In le anno 1998 identificava se 17 "paises megadiverse", id est paises qui hospita al minus 5000 species vegetal endemic, qui habe multe generes e familias endemic e qui habe ecosystemas marine unic.

59 edited 06:57



Le luce es le fluctuation temporanee de duo propietates del spatio (M e E) verso un direction, assi como le sono es un oscillation del aere. Dependente del λ, illo ha colores, es UV, IR, XR, etc.

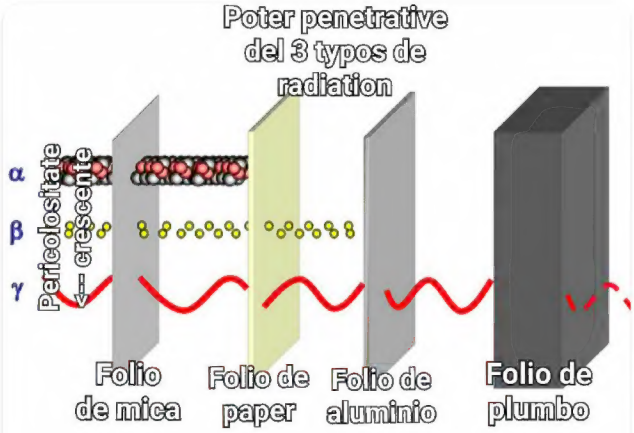
61 20:06



Le collection de tote le possibile luces es le spectro luminose o spectro electromagnetic. Major le longor del unda, minor le frequentia e minor le energia contenite in le vibrationes del unda.

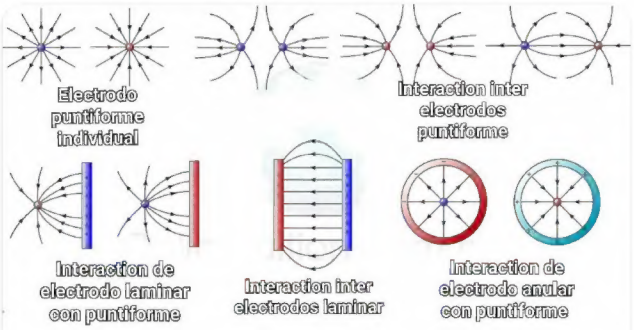
80 20:34

August 17, 2018



Le 3 typos de radiation que se pote producer in caso de radioactivitate ☢. Le α es particellar (nucleos atomic), le β es electronic (electrones) e le γ es undulatori (electromagnetic, luce).

59 05:09

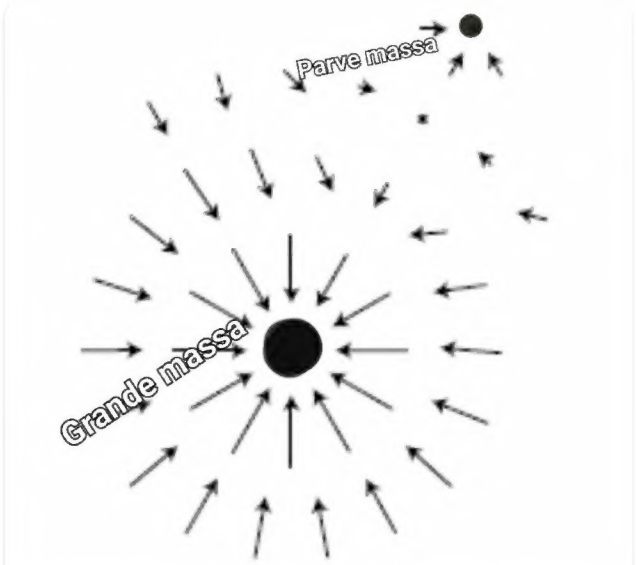


Le campo electric (E) es un proprietate intrinsec del spatio, modificabile per varie electrodos (+ o -). Su intensitate es tanto major quanto major le fortia que illo genera su un carga unitari.

57 14:56

Sol, assi como alter stellas, habe un plethora de corpores vinculate a ille. Le secreto de ce ballo eterne es triplice: campo gravitational, principio de inertia e conservation del momento angular.

57 15:23



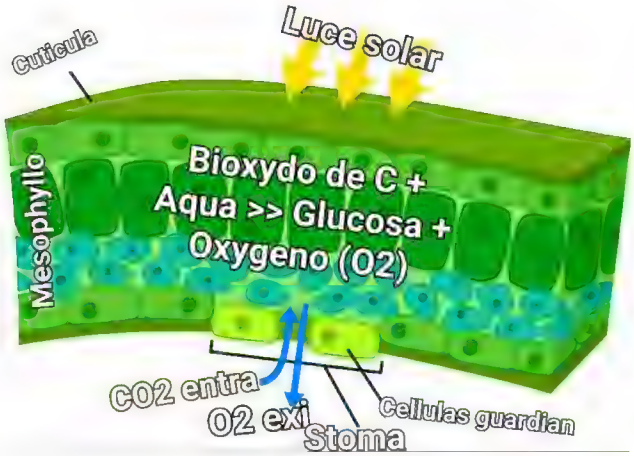
Le campo gravitational (G) es un proprietate del spatio, alterabile con massas. Es similar al campo electric, sed solmente pote esser attractive, non repulsive. Major le massa, major le G generate.

65 20:50

August 18, 2018

Le prime principio del dynamica, formulate per Newton, es celle del inertia: un corpore cambia su stato de moto (i.e. su velocitate) solmente si un fortia non equilibrate per alteres agisce sur illo.

67 07:10

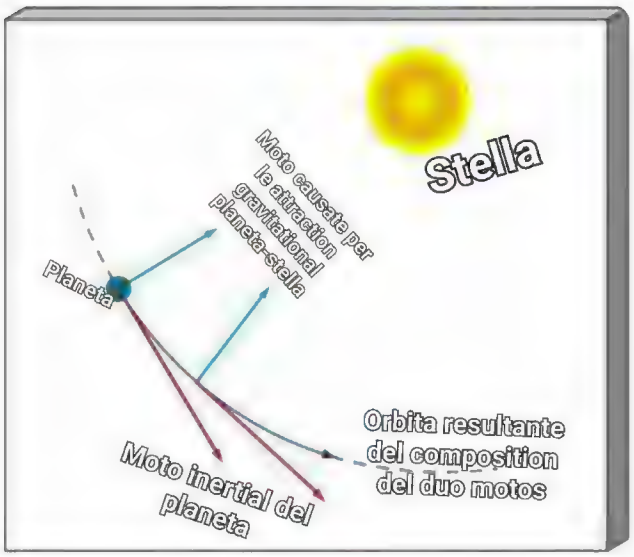


Cata folia es como un parve reactor chimic ubi adveni un del plus importante reactiones: le photosynthesis. Le luce solar es le energia externe alimentante ce processo que crea glucosa pro le planta.

67 07:37

Pangea: le supercontinente triassic. Le continuitate de tote terras permitteva al dinosauros e al coniferas un rapide expansion ubiquitarie. Dum le Jurassico, Pangea initia a frantumar se e a derivar.

70 08:19



Le orbita subcircular (revolution) del planetas circum stellas es debite al summa del duo componentes motorie del corpore planetarie.
(A isto se summa le rotation axial del planeta e del stella)

73 09:36

Plantas con flores (*Angiospermae*) es dividibile per le numero de cotyledones, i.e. "folias-semine" per le quales le semine initia a viver quando germina. Isto comporta multe characteristicas commun.

73 20:02

August 19, 2018

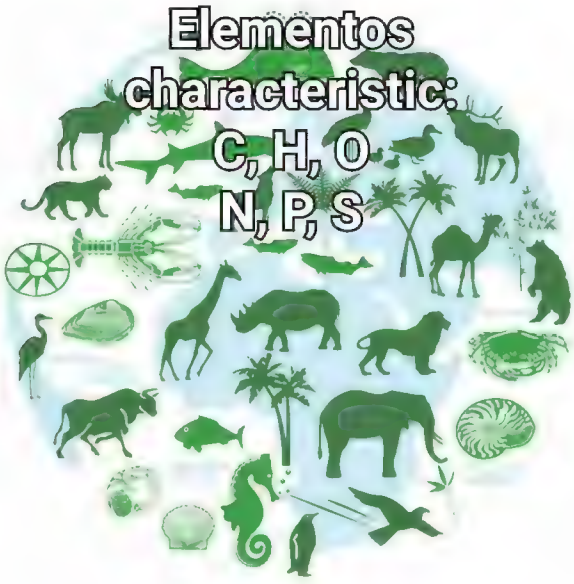
Le 5 spheras que compone le planeta Terra.
Illos habe lor dimension (± in scala nel figura), lor peculiaritates physic e lor particular serie de elementos chimic que identifica los univocamente.

69 17:41

Un fortia (F) causa un variation del stato de moto, i.e. un acceleration (a), quando applicate a un corpore con massa (m).
Tunc cata variation de moto (stoppar, partir...) es causate per fortias.

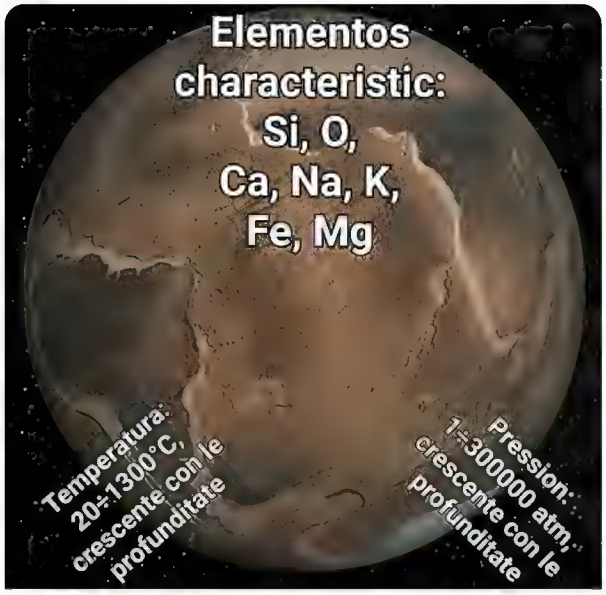
74 20:23

August 20, 2018



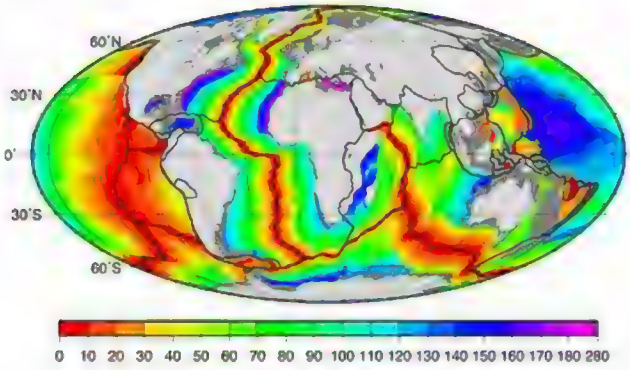
Biosphera: producto del interation del organismos con le superficie planetari. Pression e temperatura generalmente varia in parve intervallos (0.7÷5 atm, -15÷+35°C). Ce stabilitate permitte le vita.

72 06:33



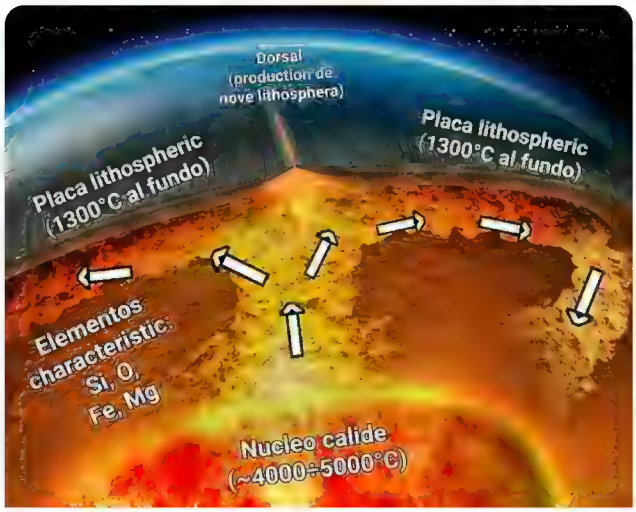
Lithosphera: portion superficial del planeta, rigide. Le spessor es variabile: 5÷10 km sub le oceanos e usque 100 km sub le continentes. Le placas es portion de lithosphera delimitate per fracturas.

78 07:38



Le etate in milliones de annos (Ma) del lithosphera oceanic. Il es proque le crusta oceanic es continuemente producite in corrispondentia del dorsales. Isto es le fortia motor del deriva continental.

76 19:18



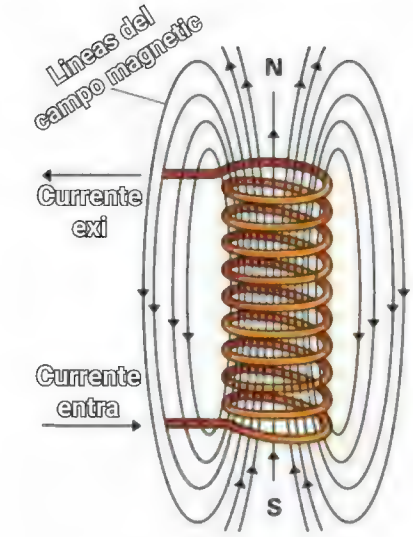
Le mesosphera rigide e su parte plus superficial fluide, le asthenosphera, sta inter lithosphera e nucleo. Illos, per medio de motos convective, age como un dissipator del calor interne del planeta.

76 edited 19:43

August 21, 2018

Le campo magnetic (B) es un altere proprietate del spatio, como le gravitational e le electric, e il es alterabile con magnetes. Un bussola orienta se parallelamente al direction del campo magnetic.

82 edited 03:35



Si se face circular currente electric constante in un solenoide, id est un spira de material conductor, isto genera un campo magnetic orientate e, al interior, constante e uniforme.

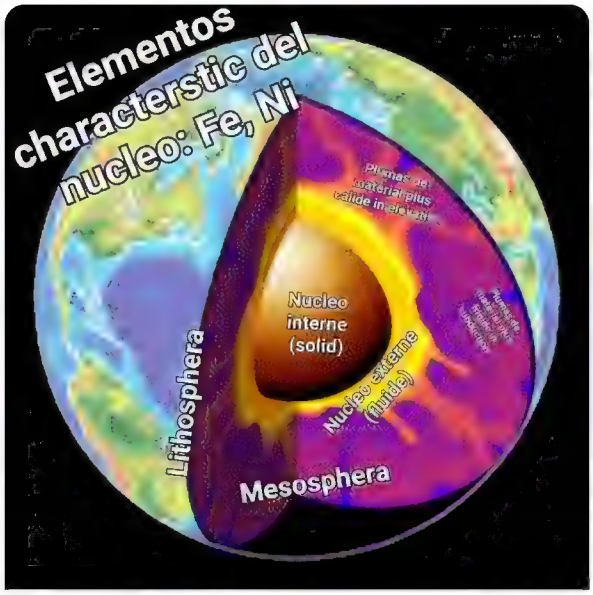
84 05:05

August 26, 2018

Plantas sin flores es le Gymnospermas. Illos es le prime typo de plantas que colonisava le terras (dum le Carbonifero). Il ha grande varietate sed illes habe characteristicas commun.

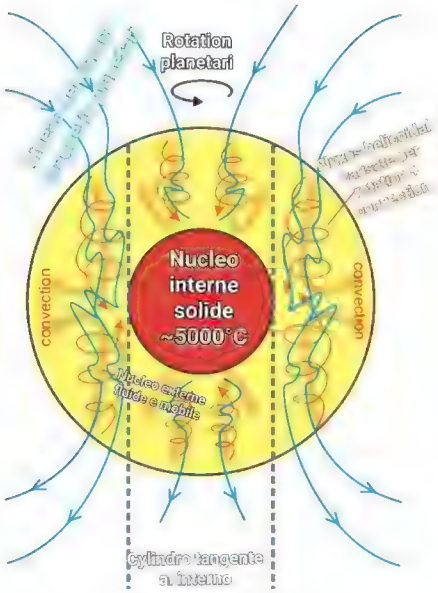
84 20:47

August 27, 2018



Le colores del section representa approximatemente le temperatura, generalmente crescente con le profunditate. Le nucleo (metallic) es fluide sed al centro se face solide pro le gigantic pression.

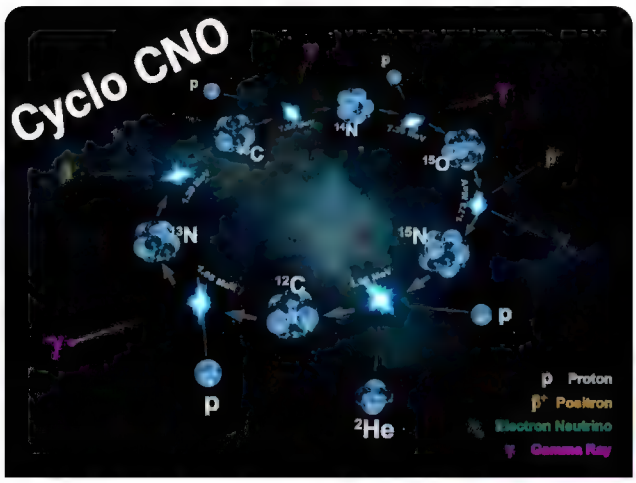
102 05:27



Le fluxos intra le nucleo externe es le summa del rotation del Terra e del convection pro le dissipation de calor. Isto forma structuras como solenoides a scala planetari que genera le campo magnetic.

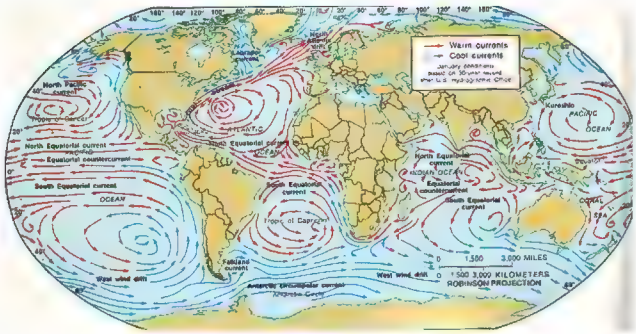
98 13:36

August 28, 2018



Le cyclo CNO (Carbono-Nitrogeno-Oxygeno) es le processo active al interior del stellas de medie etate como Sol.
Ce cyclo consuma protones (nucleos de Hydrogeno) liberante energia e varie particulas.

96 09:21



Motos general del aquas in le oceanos. In rubie aquas calide equatorial, in blu aquas frigide polar. Ce currentes oceanic es de importantia vital pro le societate: de illes depende le clima global.

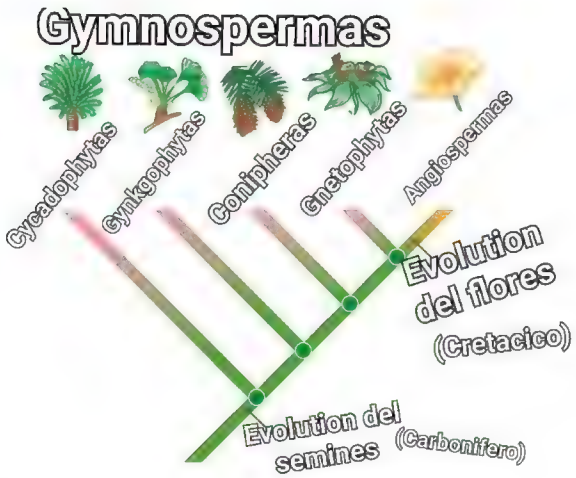
103 17:34

August 31, 2018

Le familia phoenicopteridae comprende 6 species actual. Illes vive in areas meridional del mundo. Le color typic del plumage veni del carotenoides que illes obteni per lor dieta a base de crustaceos.

112 edited 08:14

September 2, 2018



Le evolution del semines esseva fondamental pro le colonisation vegetal del terras.
Initialmente illes usava le vento pro propagar polline; depost evolveva structuras floreal pro attraher insectos.

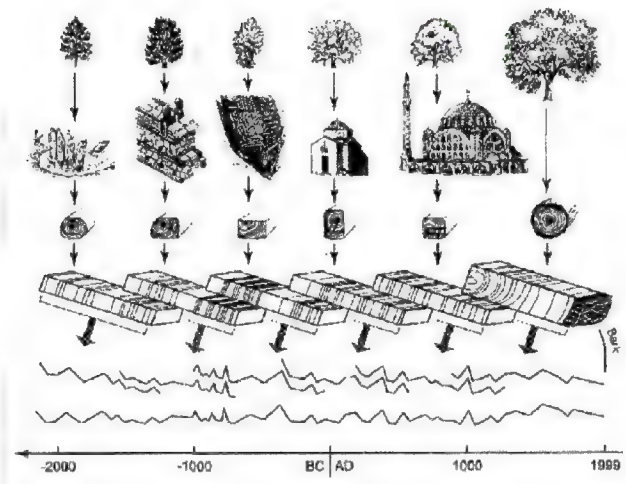
108 06:49

September 3, 2018

Il ha multe typos de reaction chimic. Alicunes libera electrones (reactiones de OXydation) e alteres consuma los (de REDuction). Utilisando ce reactiones, se crea un generator electric REDOX basic 🔋.

110 👁 11:36

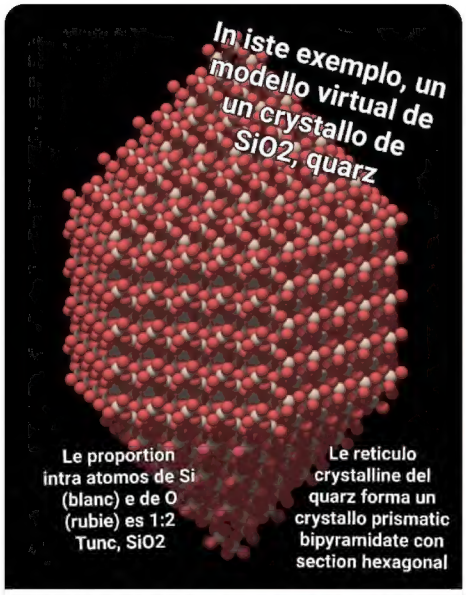
September 4, 2018



Le dendrochronologia studia le clima passate per medio del anillos del ligno, qui archivia datos chimic al crescer. Plus sectiones pote se sovrapponer partialmente pro arribar usque 15000 annos retro.

113 👁 16:58

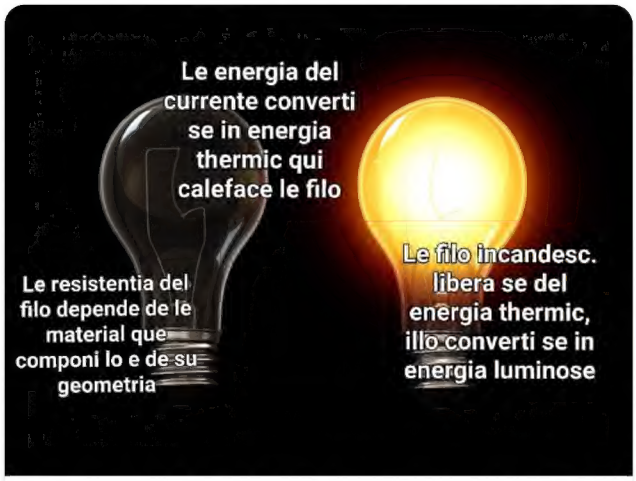
September 6, 2018



Como se passa del composition chimic al crystallo real? Isto adveni gratias al reticulo crystalline: le regulas geometric proprie e typic de cata mineral que organisa atomos a formar planos e angulos.

112 edited 18:12

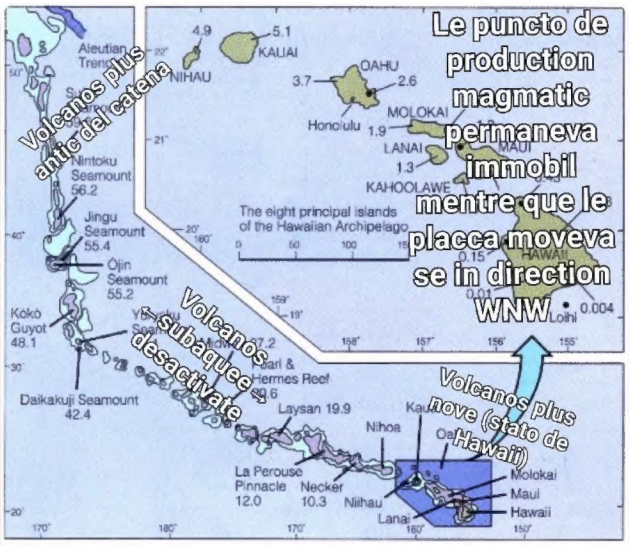
September 10, 2018



In un lampada de incandescentia, currente passa per un filo de alte resistentia electric qui subtrae un percentual del energia electric al flusso de electrones, que exi minus energetic del lampada.

110 18:13

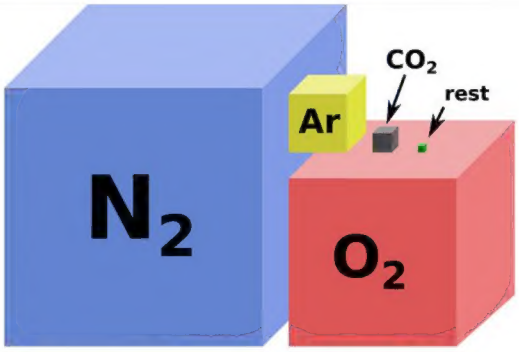
September 13, 2018



Altere evidentia del moto del placcas lithospheric es archipelagos volcanic, como celle de Hawaii. Cata insula es un volcan e le unic active es le ultime del catena (qui continua sub le aqua etiam).

108 edited 18:29

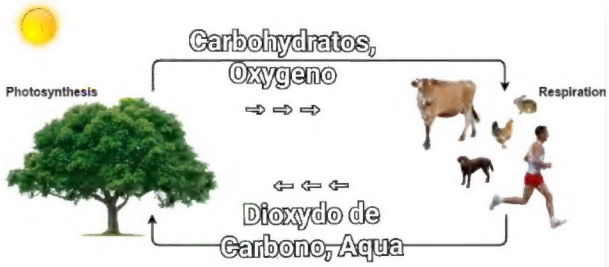
September 17, 2018



Le gases qui compone le atmosphera que nos respira es circa:
¾ de nitrogen, un gas non reactive de origine volcanic 🌋
¼ de oxygeno, un gas multo reactive de origine biologic 🌿
~1-2% de altere gases.

114 09:49

September 18, 2018



Le schematisation plus simple possibile del relation inter le duo facias del vita. Cata uno vive del production del altere. Photosynthesis e respiration es processos contrarie, alimentate per le Sol.

114 09:24

October 5, 2018

Le olivina es un del minerales le plus representative del chimica terrestre; illo es abundante proque es formate per oxidos del elementos le plus commun in le mesosphera del planeta: Mg, Fe, Si.

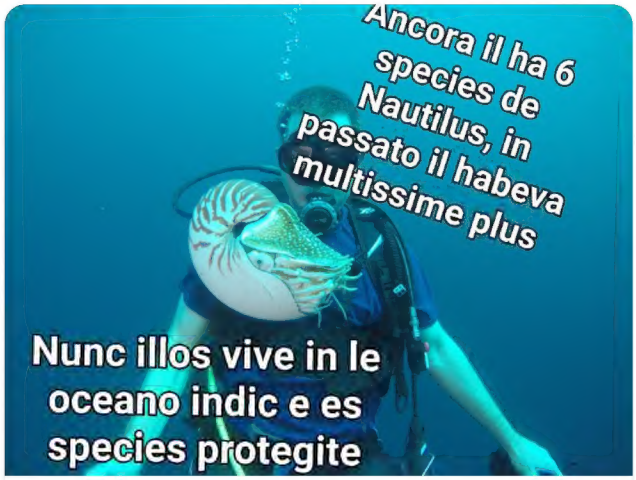
97 edited 07:18

October 6, 2018

Isto non es un sculptura, es basalto columnar. Illo es un morphologia particular que le solidification rapide de lava basaltic pote generar. Il habeva multe legendas antic super lor origine magic.

106 07:48

October 7, 2018



Ce bizarre animal apparteni al genere Nautilus, ultime superviventes del Nautiloidea, cephalopodes (🦑) predator con concha externe qui appariva in le Cambriano (il face ~500Ma) e dominava le mares.

106 12:55

November 28, 2020

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